IN THE CLAIMS

The present listing of claims replaces all previous listings of claims.

1. (Original) A method of production of carbon nanoparticles, comprising the steps of:

providing on substrate particles a transition metal compound which is decomposable to yield the transition metal under conditions permitting carbon nanoparticle formation; contacting a gaseous carbon source with the substrate particles;

before, during or after said contacting step, decomposing the transition metal compound to yield the transition metal on the substrate particles;

forming carbon nanoparticles by decomposition of the carbon source catalysed by the transition metal; and

collecting the carbon nanoparticles formed.

- 2. (Original) A method as claimed in Claim 1, wherein the transition metal compound is a transition metal salt.
- 3. (Original) A method as claimed in Claim 2, wherein the transition metal salt is a transition metal formate or oxalate.
- 4. (Currently Amended) A method as claimed in Claim 1 or Claim 2, wherein the transition metal compound is a transition metal carbonyl.
- 5. (Original) A method as claimed in Claim 4, wherein the transition metal compound is a multi metal atom transition metal carbonyl.
- 6. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the transition metal is nickel, iron or cobalt.
- 7. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the gaseous carbon source is a hydrocarbon or carbon monoxide.

- 8. (Original) A method as claimed in Claim 7, wherein the gaseous carbon source is methane or acetylene.
- 9. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the gaseous carbon source is passed over the substrate particles.
- 10. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the gaseous carbon source is mixed with a diluent.
 - 11. (Original) A method as claimed in Claim 10, wherein the diluent is argon.
- 12. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the substrate particles comprise oxide particles and/or silicate particles.
- 13. (Original) A method as claimed in Claim 12, wherein the substrate particles comprise one or more of silica, alumina, CaSiO_x, calcium oxide or magnesium oxide.
- 14. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the substrate particles are in the form of a fumed powder, a colloid, a gel or an aerogel.
- 15. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the transition metal compound is decomposed by heating.
- 16. (Original) A method as claimed in Claim 15, wherein the transition metal compound is decomposed by heating to a temperature between 200 °C and 1000°C.
- 17. (Original) A method as claimed in Claim 16, wherein the transition metal compound is decomposed by heating to a temperature between 600 °C and 1000 °C.
- 18. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the carbon nanoparticles are carbon nanotubes.

- 19. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, wherein the carbon nanotubes are single walled carbon nanotubes.
- 20. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, further comprising the initial step of impregnating the substrate particles with the transition metal compound.
- 21. (Currently Amended) A method as claimed in any one of the preceding claims, Claim 1, where the method is continuous.
 - 22. (Original) A method as claimed in Claim 21, comprising the steps of: continuously providing substrate particles; fluidising the substrate particles with a flow of gaseous carbon source; heating the transition metal compound on the substrate particles; and collecting the carbon nanoparticles formed by elution.
- 23. (Original) A method as claimed in Claim 21, comprising the steps of: continuously providing substrate particles to an upper part of an inclined surface; contacting the substrate particles on the inclined surface with a flow of gaseous carbon source;

heating the transition metal compound on the substrate particles; and collecting carbon nanoparticles formed from a lower part of the inclined surface.

24. (Original) A method of production of carbon nanoparticles, comprising the steps of:

providing on substrate particles a transition metal oxalate, formate or multi metal atom carbonyl;

heating the transition metal oxalate, formate or multi metal atom carbonyl on the substrate particles;

contacting a gaseous carbon source with the substrate particles; and collecting the carbon nanoparticles formed.

- 25. (Original) A method as claimed in Claim 24, wherein the transition metal oxalate, formate or multi metal atom carbonyl is nickel formate and the substrate particles are silica particles.
- 26. (Currently Amended) Carbon nanoparticles formed by a method as claimed in any one of the preceding claims. Claim 1.